

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

1. (Currently Amended) A method for rendering a graphical user interface (GUI), comprising:

providing for [[the]] a representation of the GUI as a set of controls wherein the controls are organized in a logical hierarchy and wherein each one of the controls has an entitlement that can be used to determine whether or not the control is visible when rendered;

traversing the representation, wherein the traversing comprises:

associating a theme with a first control in the set of controls;

rendering the first control according to the theme;

rendering any descendents of the first control according to the theme;

wherein any descendents of the first control can override the theme; and

wherein one of the set of controls can communicate with another of the set of controls.

2. (Original) The method of claim 1 wherein:

one of the set of controls can respond to an event raised by another of the set of controls.

3. (Original) The method of claim 1 wherein:

a control can have an interchangeable persistence mechanism.

4. (Original) The method of claim 1 wherein:

a control can have an interchangeable rendering mechanism.

5. (Original) The method of claim 1, further comprising:

accepting a request.

6. (Original) The method of claim 5 wherein:

the request in a hypertext transfer protocol (HTTP) request.

7. (Original) The method of claim 5 wherein:

the request originates from a Web browser.

8. (Original) The method of claim 1, further comprising:

generating a response.

9. (Original) The method of claim 1 wherein:

an control can represent one of: button, text field, menu, table, window, window control, title bar, pop-up window, check-box button, radio button, window frame, desktop, shell, head, body, header, footer, book, page, layout, placeholder, portlet and toggle button.

10. (Original) The method of claim 1 wherein:

associating the theme with the first control can occur when the first control is rendered.

11. (Original) The method of claim 1 wherein:

the first control inherits the theme from a parent control.

12. (Original) The method of claim 1 wherein:

the theme specifies the appearance and/or functioning of an control in the GUI.

13. (Original) The method of claim 1 wherein:

rendering the first control according to the theme can be accomplished in parallel with rendering of other controls.

14. (Original) The method of claim 1 wherein:

the theme can be specified in whole or in part by a properties file.

15. (Original) The method of claim 14 wherein:

the properties file can include at least one of: 1) cascading style sheet; 2) Java Server Page; 3) Extensible Markup Language; 4) text; 5) Hypertext Markup Language; 6) Extensible Hypertext Markup Language; 7) JavaScript; and 8) Flash MX.

16. (Original) The method of claim 14 wherein:

the properties file can specify at least one image.

17. (Original) The method of claim 1 wherein:

the GUI is part of a portal on the World Wide Web.

18. (Original) A method for rendering a graphical user interface (GUI), comprising:
- accepting a request;
 - mapping the request to a set of controls that represent the GUI, and wherein the controls are organized in a logical hierarchy and wherein each one of the controls has an entitlement that can be used to determine whether or not the control is visible when rendered;
 - traversing the representation, wherein the traversing comprises:
 - associating a theme with a first control in the set of controls;
 - rendering the first control according to the theme;
 - rendering any descendents of the first control according to the theme; and
 - wherein any descendents of the first control can override the theme.
19. (Original) The method of claim 18 wherein:
- the request in a hypertext transfer protocol (HTTP) request.
20. (Original) The method of claim 18 wherein:
- the request originates from a Web browser.
21. (Original) The method of claim 18, further comprising:
- generating a response.
22. (Currently Amended) The method of claim ~~[[1]]~~ 18 wherein:
- one of the set of controls can respond to an event raised by another of the set of controls.

23. (Currently Amended) The method of claim [[1]] 18 wherein:

a control can have an interchangeable persistence mechanism.

24. (Currently Amended) The method of claim [[1]] 18 wherein:

a control can have an interchangeable rendering mechanism.

25. (Original) The method of claim 18 wherein:

an control can represent one of: button, text field, menu, table, window, window control, title bar, pop-up window, check-box button, radio button, window frame, desktop, shell, head, body, header, footer, book, page, layout, placeholder, portlet and toggle button.

26. (Original) The method of claim 18 wherein:

associating a theme with the first control can occur when the first control is rendered.

27. (Original) The method of claim 18 wherein:

the first control inherits the theme from a parent control.

28. (Original) The method of claim 18 wherein:

the theme specifies the appearance and/or functioning of an control in the GUI.

29. (Original) The method of claim 18 wherein:

rendering the first control according to the theme can be accomplished in parallel with rendering of other controls.

30. (Original) The method of claim 18 wherein:

the theme can be specified in whole or in part by a properties file.

31. (Original) The method of claim 30 wherein:

the properties file can include at least one of: 1) cascading style sheet; 2) Java Server Page; 3) Extensible Markup Language; 4) text; 5) Hypertext Markup Language; 6) Extensible Hypertext Markup Language; 7) JavaScript; and 8) Flash MX.

32. (Original) The method of claim 30 wherein:

the properties file can specify at least one image.

33. (Original) The method of claim 18 wherein:

the GUI is part of a portal on the World Wide Web.

34. (Currently Amended) A method for rendering a graphical user interface (GUI), comprising:

providing for [[the]] a representation of the GUI as a plurality of controls wherein the controls are organized in a logical hierarchy and wherein each one of the controls has an entitlement that can be used to determine whether or not the control is visible when rendered;

traversing the representation, wherein the traversing comprises:

associating a first theme with a first control in the plurality of controls;

rendering the first control according to the first theme;

associating a second theme with a second control in the plurality of controls;
rendering the second control according to the second theme; and
wherein the second control is a descendant of the first control.

35. (Original) The method of claim 34, further comprising:
accepting a request.

36. (Original) The method of claim 35 wherein:
the request in a hypertext transfer protocol (HTTP) request.

37. (Original) The method of claim 35 wherein:
the request originates from a Web browser.

38. (Original) The method of claim 34, further comprising:
generating a response.

39. (Currently Amended) The method of claim [[1]] 34 wherein:
the first control can respond to an event raised by the second control.

40. (Currently Amended) The method of claim [[1]] 34 wherein:
an control can have an interchangeable persistence mechanism.

41. (Currently Amended) The method of claim [[1]] 34 wherein:

an control can have an interchangeable rendering mechanism.

42. (Original) The method of claim 34 wherein:

an control can represent one of: button, text field, menu, table, window, window control, title bar, pop-up window, check-box button, radio button, window frame, desktop, shell, head, body, header, footer, book, page, layout, placeholder, portlet and toggle button.

43. (Original) The method of claim 34 wherein:

the first control inherits the first theme from a parent control.

44. (Original) The method of claim 34 wherein:

the first theme specifies the appearance and/or functioning of the first control in the GUI.

45. (Original) The method of claim 34 wherein:

the rendering the first control can be accomplished in parallel with the rendering of the second control.

46. (Original) The method of claim 34 wherein:

a theme can be specified in whole or in part by a properties file.

47. (Original) The method of claim 46 wherein:

the properties file can include at least one of: 1) cascading style sheet; 2) Java Server Page; 3) Extensible Markup Language; 4) text; 5) Hypertext Markup Language; 6) Extensible Hypertext Markup Language; 7) JavaScript; and 8) Flash MX.

48. (Original) The method of claim 46 wherein:
the properties file can specify at least one image.

49. (Original) The method of claim 34 wherein:
the GUI is part of a portal on the World Wide Web.

50. (Currently Amended) A machine readable medium having instructions stored thereon that when executed by a processor cause a system to:

provide for [[the]] a representation of the GUI as a set of controls wherein the controls are organized in a logical hierarchy and wherein each one of the controls has an entitlement that can be used to determine whether or not the control is visible when rendered;

traverse the representation, wherein the traversing comprises instructions to cause the system to:

associate theme with a first control in the set of controls;

render the first control according to the theme;

render any descendents of the first control according to the theme;

wherein any descendents of the first control can override the theme; and

wherein one of the set of controls can communicate with another of the set of controls.

51. (Original) The machine readable medium of claim 50 wherein:

one of the set of controls can respond to an event raised by another of the set of controls.

52. (Original) The machine readable medium of claim 50 wherein:

a control can have an interchangeable persistence mechanism.

53. (Original) The machine readable medium of claim 50 wherein:

a control can have an interchangeable rendering mechanism.

54. (Original) The machine readable medium of claim 50, further comprising instructions that when executed cause the system to:

accept a request.

55. (Original) The machine readable medium of claim 54 wherein:

the request in a hypertext transfer protocol (HTTP) request.

56. (Original) The machine readable medium of claim 54 wherein:

the request originates from a Web browser.

57. (Original) The machine readable medium of claim 50, further comprising instructions that when executed cause the system to:

generate a response.

58. (Original) The machine readable medium of claim 50 wherein:

an control can represent one of: button, text field, menu, table, window, window control, title bar, pop-up window, check-box button, radio button, window frame, desktop, shell, head, body, header, footer, book, page, layout, placeholder, portlet and toggle button.

59. (Original) The machine readable medium of claim 50 wherein:

associating the theme with the first control can occur when the first control is rendered.

60. (Original) The machine readable medium of claim 50 wherein:

the first control inherits the theme from a parent control.

61. (Original) The machine readable medium of claim 50 wherein:

the theme specifies the appearance and/or functioning of an control in the GUI.

62. (Original) The machine readable medium of claim 50 wherein:

rendering the first control according to the theme can be accomplished in parallel with rendering of other controls.

63. (Original) The machine readable medium of claim 50 wherein:

the theme can be specified in whole or in part by a properties file.

64. (Original) The machine readable medium of claim 63 wherein:

the properties file can include at least one of: 1) cascading style sheet; 2) Java Server Page; 3) Extensible Markup Language; 4) text; 5) Hypertext Markup Language; 6) Extensible Hypertext Markup Language; 7) JavaScript; and 8) Flash MX.

65. (Original) The machine readable medium of claim 63 wherein:

the properties file can specify at least one image.

66. (Original) The machine readable medium of claim 50 wherein:

the GUI is part of a portal on the World Wide Web.

67. (Currently Amended) A computer [[data signal embodied in a transmission]] readable storage medium, comprising:

a code segment including instructions to provide for [[the]] a representation of the GUI as a set of controls wherein the controls are organized in a logical hierarchy and wherein each one of the controls has an entitlement that can be used to determine whether or not the control is visible when rendered;

a code segment including instructions to traverse the representation comprising:

a code segment including instructions to associate theme with a first control in the set of controls;

a code segment including instructions to render the first control according to the theme;

a code segment including instructions to render any descendents of the first control according to the theme;

wherein any descendants of the first control can override the theme; and

wherein one of the set of controls can communicate with another of the set of controls.